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Andrei H. Căldăraru* (andreic@math.wisc.edu), 480 Lincoln Dr., Madison, WI 53706.

Non-flat base change and the orbifold HKR isomorphism.

I shall discuss and prove a base change theorem for derived categories of smooth schemes, in the absence of flatness assumptions. As an application I shall present a Hochschild-Kostant-Rosenberg isomorphism for smooth, global quotient orbifolds. (Received August 06, 2007)